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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/522,848	09/20/2005	Sang-Soo Kim	AB-1410 US	9371
	7590	EXAMINER		
2033 GATEWAY PLACE SUITE 400 SAN JOSE, CA 95110			WEISS, HOWARD	
			ART UNIT	PAPER NUMBER
			2814	
			MAIL DATE	DELIVERY MODE
			12/16/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/522,848	KIM ET AL.		
Office Action Summary	Examiner	Art Unit		
	Howard Weiss	2814		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE MAILING THE MAILING THE METERS OF THE MAILING THE MAILING THE MAILING THE METERS OF THE METERS OF THE MAILING THE MAILING THE METERS OF THE METERS OF THE METERS OF THE METERS OF THE MAILING THE METERS OF THE METERS	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tinwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>26 S</u> This action is <b>FINAL</b> . 2b) ☐ This     Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final.			
Disposition of Claims				
4) ☐ Claim(s) 1.2 and 5-16 is/are pending in the appending of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1.2 and 5-16 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/o	wn from consideration. r election requirement.			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the Edrawing(s) be held in abeyance. Seetion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7/21/2008.	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	ate		

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Attorney's Docket Number: AB-1410 US

Filing Date: 9/20/2005

Continuing Data: #&! of PCT/KR02/01763 (9/18/2002)

Claimed Foreign Priority Date: 8/1/2002 (KRX)

Applicant(s): Kim et al. (Kim)

**Examiner: Howard Weiss** 

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 2 and 5 to 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Park et al. (KR 10 2001-0050708A) and Kim et al. (JP 2001-005038).

Park et al. show most aspects of the instant invention (e.g. Figures 7 and 8) including:

- an insulating substrate 10
- ➤ a gate wire including gate lines 24, gate electrodes and gate pads 25 said gate lines being the second signal line having a first portion going in a transverse direction and a portion going in a longitudinal direction
- a storage electrode wire including storage electrode lines 23 and electrodes 26
- a gate insulating layer 30 and a semiconductor layer 40 on said gate insulating layer
- a data wire including data lines 62, source 64 and drain 65 electrodes and data pads 64
- a passivation layer 72 formed on said date wire and pixel electrodes 82 formed on said passivation layer

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> storage electrode connections with a first group of storage electrode lines 26, 28 parallel to the gate lines and a second group of storage electrode line 84 perpendicular to said gate lines, connecting said storage electrode lines and electrodes and facing across the gate lines provided on the pixel area

- > the storage wire is formed simultaneously with the gate wire (Figure 4a)
- > separate, common bars 65 connecting the ends of the storage electrode lines

Park et al. do not show a plurality of color filters disposed between the data wire and the passivation layer and the common bar having a width less then or equal to 150 microns. Kim et al. teach (e.g. Figures 32 and 33) to form a plurality of color filters 75,77 between data wires 60,62 and a passivation layer 90 to reduce the number of masks in production (see Solution). It would have been obvious to a person of ordinary skill in the art at the time of invention to form a plurality of color filters between data wires and a passivation layer as taught by Kim et al. in the device of Park et al. to reduce the number of masks in production.

Since the Applicant has not established the criticality of the widths stated and since these widths are in common use in similar devices in the art, it would have been obvious to one of ordinary skill in the art to use these values in the device of Park et al. and Kim et al. Where patentability is said to be based upon particular chosen dimensions or upon another variable recited in a claim, the applicant must show that the chosen dimensions are critical. *In re Woodruff*, 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936 (Fed. Cir. 1990).

## Response to Arguments

3. Applicant's arguments with respect to Claims 1, 2 and 5 to 16 have been considered but are most in view of the new ground(s) of rejection.

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## Conclusion

4. Papers related to this application may be submitted directly to Art Unit 2814 by facsimile transmission. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (15 November 1989). The Art Unit 2814 Fax Center number is (571) 273-8300. The Art Unit 2814 Fax Center is to be used only for papers related to Art Unit 2814 applications.

- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Howard Weiss at (571) 272-1720 and between the hours of 7:00 AM to 3:00 PM (Eastern Standard Time) Monday through Friday or by e-mail via <a href="mailto:Howard-Weiss@uspto.gov">Howard-Weiss@uspto.gov</a>. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy, can be reached on (571) 272-1705.
- 6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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## 7. The following list is the Examiner's field of search for the present Office Action:

Field of Search	Date
U.S. Class / Subclass(es): 257/ 59, E21.703	Thru 12/10/2008
Other Documentation: none	
Electronic Database(s): EAST	Thru 12/10/2008

HW/hw 15 December 2008 /Howard Weiss/ Primary Examiner Art Unit 2814